

**WHAT IS CLAIMED IS:**

- 1     1. A gold alloy comprising by weight about 90.9 – 93.0% gold and:
  - 2         • 0.4 to 1.5% zinc;
  - 3         • 6.0 to 7.5% nickel;
  - 4         • 0.4 to 1.5% copper; and
  - 5         • 0.02 to 0.50% cobalt.
  
- 1     2. The gold alloy of claim 1 comprising by weight:
  - 2         • 0.5 to 1.0% zinc;
  - 3         • 6.0 to 7.5% nickel;
  - 4         • 0.4 to 0.8% copper; and
  - 5         • 0.02 to 0.10% cobalt.
  
- 1     3. The gold alloy of claim 2 in which the cobalt is present in about 0.03 to 0.10% by  
2     weight..
  
- 1     4. The gold alloy of claim 1 in which the alloy comprises by weight about:
  - 2         • 0.66% zinc;
  - 3         • 7.00% nickel;
  - 4         • 0.60% copper; and
  - 5         • 0.07% cobalt.
  
- 1     5. The gold alloy of any one of claim 1 in which the alloy consists essentially of the  
2     listed elements.
  
- 1     6. The gold alloy of any one of claim 1 in which the gold is present in about 91.67%.

1 7. A master alloy for making a gold alloy composition, the master alloy comprising by  
2 weight:

- 3 • 4.8 to 18.0% zinc;
- 4 • 72.0 to 90.0% nickel;
- 5 • 4.8 to 18.0% copper; and
- 6 • 0.24 –6.0% cobalt.

1 8. The master alloy of claim 7 comprising by weight:

- 2 • 6.0 – 12.0% zinc;
- 3 • 72.0 to 90.0% nickel;
- 4 • 4.8 to 9.6% copper; and
- 5 • 0.24-1.2% cobalt.

1 9. The master alloy of claim 8 in which the cobalt comprises 0.4 to 1.2% by weight.

1 10. The master alloy of claim 7 in which the alloy comprises about:

- 2 • 7.92% zinc;
- 3 • 84.03% nickel;
- 4 • 7.21% copper; and
- 5 • 0.84% cobalt.

1 11. The master alloy of claim 7 in which the alloy consists essentially of the listed  
2 elements.

1 12. A method of making a gold alloy composition comprising providing the master alloy  
2 of any of claims 7-10 and mixing the master alloy with gold in a ratio of about 90.9 – 93.0%  
3 by weight gold with the remainder being master alloy.

1 13. The method of claim 12 in which the gold is present in about 91.67% by weight

1 14. A method of making jewelry comprising manufacturing a gold alloy according to any  
2 of claims 1-4 in the form of a rod or a bar and rolling the bar or rod to a sheet having a  
3 substantially reduced thickness.

1 15. The method of claim 14 in which the sheet is stamped into a two or a three-  
2 dimensional part.

1 16. The method of claim 14 in which the sheet is manufactured into a threaded part.

1 17. The method of claim 14 in which the sheet is manufactured into a spring or a spring-  
2 containing part.

1 18. Jewelry comprising the alloy of any of claims 1-4.

1 19. Jewelry made by the method of claim 14.